

Abstract:

In a comfort system having a combination furnace and air conditioner, the two are operated simultaneously at periods of time in which emergency power is desired, with the air conditioning system being temporarily converted to cause the flow of refrigerant to pass from the evaporator to a high pressure side of said compressor rather than to the low pressure side thereof to thereby drive the compressor in reverse such that it operates as a turbine. The turbine then drives its motor in reverse to generate power to be supplied to the various components of the systems and to other appliances during emergency mode operation.